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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/664,640	09/17/2003	Hideyuki Kawanabe	03572/LH	5052
1933	7590 01/27/2005		EXAMINER	
FRISHAUF, HOLTZ, GOODMAN & CHICK, PC			LAVARIAS, ARNEL C	
767 THIRD A 25TH FLOOR			ART UNIT	PAPER NUMBER
	NY 10017-2023		2872	

DATE MAILED: 01/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Appli ation No.	Applicant(s)	
	10/664,640	KAWANABE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Arnel C. Lavarias	2872	
The MAILING DATE of this communication Period for Reply	appears on the cov r she t wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a r n. a reply within the statutory minimum of thin ririod will apply and will expire SIX (6) MON latute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status			
 1) Responsive to communication(s) filed on 1 2a) This action is FINAL. 2b) 2 3) Since this application is in condition for allocation accordance with the practice und 	This action is non-final. owance except for formal matt	• •	
Disposition of Claims			
4) ☑ Claim(s) 1-7 is/are pending in the application 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 7 is/are rejected. 7) ☑ Claim(s) 1-6 is/are objected to. 8) ☐ Claim(s) are subject to restriction are	drawn from consideration.		
Application Papers			
9)☑ The specification is objected to by the Exam 10)☑ The drawing(s) filed on 17 September 2003 Applicant may not request that any objection to Replacement drawing sheet(s) including the co. 11)☐ The oath or declaration is objected to by the	is/are: a)⊠ accepted or b)☐ the drawing(s) be held in abeyar rrection is required if the drawing	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the priority docum application from the International Bu * See the attached detailed Office action for a	nents have been received. nents have been received in A priority documents have been reau (PCT Rule 17.2(a)).	pplication No received in this National Stage	
·	•		
Attachment(s) 1) X Notice of References Cited (PTO-892)	A) [] Intervious	ummary (PTO-413)	
 Notice of Neterences Cited (* 10-092) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date <u>9/17/03</u>.) Paper No(s	y/Mail Dateformal Patent Application (PTO-152)	

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

2. The drawings were received on 9/17/03. These drawings are acceptable.

Specification

- The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

 Examples of such errors are given below.
- 4. The disclosure is objected to because of the following informalities:

Page 25, line 20- insert 'and' after 'diaphragm'

Page 26, lines 9, 21, 26- delete 'the' after 'While'

Page 27, line 23- delete 'the' after 'changed for'.

Appropriate correction is required.

Claim Objections

5. Claims 1-6 are objected to because of the following informalities:

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Claim 1, line 9; Claim 2, line 3; Claim 3, line 16; Claim 4, line 3; Claim 5, lines 4, 7; Claim 6, line 11- 'the power supply' should read 'the supply of power'.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kaczynski et al. (U.S. Patent No. 5315080), in view of Ikoh et al. (U.S. Patent No. 5517353) and Maenle et al. (U.S. Patent Application Publication US 2003/0179445 A1).

Kaczynski et al. discloses a microscope apparatus (See Figures 1-2) comprising at least one driver (See 3 in Figures 1-2; col. 2, lines 27-34); and a plurality of sensors to individually detect stopped states of the at least one driver (See 5, 21 in Figures 1-2). Kaczynski et al. does not specifically disclose a plurality of drivers mounted on a main body of the microscope apparatus, a power supply which supplies power to the plurality of sensors, and a selecting section which selects at least one of the plurality of sensors to be supplied with power from the power supply. It is noted that the use of a power supply to provide electrical voltage/current to sensors in a microscope is known in the art.

Further, it is known in the art to utilize multiple drivers, such as motors on the sample

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stage and on the revolver, in a microscope, and to attach such drivers to the microscope body. As an example, Ikoh et al. teaches a microscope system (See for example Figure 10), which includes various sensors, drivers, and illumination apparatuses (See for example Figures 1-8, 11-17). In particular, Itoh et al. relies on the use of a power source circuit connected to a commercial power source to drive these various sensors, drivers, and illumination apparatuses (See for example 9 in Figure 5; 112 in Figure 11). Further, Ikoh teaches that a driver may also be used with the revolver for objective lens selection, and that this driver may be attached to a microscope body (See for example Figures 6-7, 11). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have a power supply which supplies power to the plurality of sensors, as taught by Ikoh et al., in the microscope apparatus of Kaczynski et al., to simplify automation of the various functions of the microscope (e.g. focusing and calibration of various optical elements). Further, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have a plurality of drivers mounted on a main body of the microscope apparatus, as taught by Ikoh et al., in the microscope apparatus of Kaczynski et al., to reduce the size of the optical system by integrating everything onto the microscope, as well as simplify automation of multiple functions of the microscope (in the instant case, automating objective selection and focusing). The combined teachings of Kaczynski et al. and Ikoh et al. do not specifically disclose a selecting section which selects at least one of the plurality of sensors to be supplied with power from the power supply. However, it is known in the art to provide a main switch or button on a microscope that controls the main power to all of the various

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electronics in the microscope. For example, Maenle et al. teaches a conventional electronic microscope for cytological imaging applications (See Abstract; Figures 4-5, 34-35), wherein operation of the microscope, including the microscope's various functions, requires that the microscope initially be powered on (See for example 600 in Figure 2A). In doing so, all of the microscope electronic components, including the drivers and sensors, become electrically live. One of ordinary skill would typically toggle a main switch or push a main power button to perform such power-up. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have a selecting section, such as a main switch or power button, which selects at least one (or in the instant case all) of the plurality of sensors to be supplied with power from the power supply, as taught by Maenle et al., in the microscope apparatus of Kaczynski et al. and Ikoh et al., for the purpose of reducing the time required to operate the microscope since all of the electrical components are already electrically live and do not have to be individually powered up when needed.

Allowable Subject Matter

- 8. Claims 1-6 would be allowable if rewritten or amended to overcome the claim objections set forth in this Office action.
- 9. The following is a statement of reasons for the indication of allowable subject matter:

 Claim 1 is allowable over the cited art of record for at least the reason that the cited art

 of record fails to teach or reasonably suggest a microscope apparatus, as generally set

 forth in Claim 1, the microscope apparatus including a controller which controls the

supply of power to the sensor from the power supply in accordance with a drive control signal sent from the drive controller to the driver. Claim 2 is dependent on Claim 1, and hence is allowable for at least the same reasons that Claim 1 is allowable.

Claim 3 is allowable over the cited art of record for at least the reason that the cited art of record fails to teach or reasonably suggest a microscope apparatus, as generally set forth in Claim 3, the microscope apparatus including a controller which controls the supply of power to the second sensor from the power supply in accordance with a drive control signal sent from the drive controller to the second driver. Claims 4-5 are dependent on Claim 3, and hence are allowable for at least the same reasons that Claim 3 is allowable.

Claim 6 is allowable over the cited art of record for at least the reason that the cited art of record fails to teach or reasonably suggest a microscope apparatus, as generally set forth in Claim 6, the microscope apparatus including a state detection section which detects an exposure state of the imager; and a controller which stops the supply of power to the sensor depending on the exposure state of the imager, which is detected by the state detection section.

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arnel C. Lavarias whose telephone number is 571-272-2315. The examiner can normally be reached on M-F 9:30 AM - 6 PM EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on 571-272-2312. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Arnel C. Lavarias

Patent Examiner
Group Art Unit 2872

1/24/05